



MATERIAL SAFETY DATA SHEET #3045

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1301 East 9th Street, Suite 1300, Cleveland, OH 44114-1849
EMERGENCY PHONE: LESCO: (800) 321-5325
CHEMTREC: (800) 424-9300

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SUPERSEDES: NEW

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Eagle[®] 0.39% Granular Turf Fungicide

Chemical Family: Mixture

Chemical Name/Synonyms:

Myclobutanil: alpha-butyl-alpha-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Myclobutanil: alpha-butyl-alpha-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile	0.39	88671-89-0	1 mg/M ³ TWA 3 m/M ³ STEL

Substances not 'Hazardous' per OSHA Hazard Communication Standard (29 CFR 1910.1200) may be listed. Where proprietary ingredient shows, the identify may be made available as provided in this standard

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS: May cause eye irritation with corneal injury. May cause skin irritation.

EYE: May cause moderate eye irritation with corneal injury. Dust may irritate eyes.

SKIN: May cause slight skin irritation with local redness.

INHALATION: Dust may cause irritation of the upper respiratory tract (nose & throat) and lungs.

INGESTION: Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however swallowing larger amounts may cause injury.

MEDICAL CONDITIONS AGGRAVATED: None Known

POTENTIAL ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or disposing of wastes.

IV. FIRST AID MEASURES

EYES: Immediately flush with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eye for at least 15 minutes. Obtain medical attention without delay, preferably an ophthalmologist.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTES TO MEDICAL DOCTOR: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA

Lower Explosion Limits: NA

Auto Ignition Temperature: NA

Upper Explosion Limits: NA

NFPA/HMIS Rating: Health: 2

Fire: 1

Reactivity: 0

EXTINGUISHING MEDIA: Foam
 Dry Chemical

Alcohol Foam
 Water Spray

CO₂
 Other

UNUSUAL FIRE AND EXPLOSION HAZARDS: Pesticide particulates can become airborne. Combustion generates toxic fumes of the following: hydrogen chloride. Dusts at sufficient concentrations can form explosive mixtures with air. The minimum ignition temperature of dust cloud is 945F/507C and of dust layer is 730F/388C.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (pressure demand NIOSH approved or equivalent) and full protective gear. Contain run-off. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire.

HAZARDOUS COMBUSTION PRODUCTS: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: nitrogen oxides, hydrogen chloride, carbon monoxide, and carbon dioxide.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, sweep up small spills and place in a suitable container for disposal. Report large spills to Dow AgroSciences at 800-992-5994. Keep dust to a minimum. Keep out of sewers and open bodies of water.

Wear appropriate protective equipment when handling a spill of this material. If exposed to material during clean-up operations, See Section IV for actions to follow. Remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES:

Avoid eye contact. Wash thoroughly with soap and water after handling. Do not swallow. Do not store this material near food, feed, or drinking water. Store in a cool, dry, well-ventilated area out of direct sunlight. Store with the container tightly closed when not in use. Do not handle material near food, feed or drinking water.

OTHER PRECAUTIONS: Keep out of reach of children. Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration as allowed by state and local authorities. Avoid inhalation of smoke if incinerated.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Chemical goggles

RESPIRATORY: For most conditions, no respiratory protection should be needed; however, if discomfort is experienced, use a NIOSH approved air-purifying respirator.

GLOVES: Chemical resistant gloves

PROTECTIVE CLOTHING: Long-sleeved shirt and long pants, shoes plus socks.

WORK HYGIENIC PRACTICES: Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

COMMENTS: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA

MELTING POINT: NA

VAPOR DENSITY (air = 1): NA

ODOR: Odorless

APPEARANCE: White crystals

pH: NA

SPECIFIC GRAVITY (Water = 1): 1.11 (technical)

EVAPORATION RATE: NA

VAPOR PRESSURE: NA

SOLUBILITY IN WATER: Dispersible

PERCENT VOLATILE: 0%

BULK DENSITY (lbs./cu ft): NE

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Keep away from fire and sparks.

STABILITY: Stable

POLYMERIZATION: Not known to occur

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: May cause eye irritation

SKIN EFFECTS: May cause skin irritation

DERMAL LD₅₀: (Rabbit): >5000 mg/kg

ORAL LD₅₀: (Rat): >1000 mg/kg

INHALATION LC₅₀: (Rat): >5.1 mg/L for 4 hrs

SENSITIZATION: No Data

ACUTE EFFECTS FROM OVEREXPOSURE:

May cause eye irritation with corneal injury. May cause skin irritation.

CHRONIC EFFECTS FROM OVEREXPOSURE:

Excessive exposure may cause irritation to upper respiratory tract (nose & throat).

CARCINOGENICITY: Myclobutanil did not cause cancer in laboratory animals.

TERATOLOGY (Birth Defects): Myclobutanil did not cause birth defects in laboratory animals. Has been toxic to the fetus in laboratory animals at doses non-toxic to the mother.

REPRODUCTIVE EFFECTS: For Myclobutanil, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

SYSTEMIC (Other Target Organ) EFFECTS: For Myclobutanil, in animals, effects have been reports on the following organs: testes, adrenal gland, kidney and thyroid.

IARC: Not Listed

OSHA: Not Listed

NTP: Not Listed

OTHER: California Proposition 65: **WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (Myclobutanil – CAS # 88671-89-0)

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This pesticide is toxic to fish. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or disposing of wastes.

ECOTOXICOLOGICAL INFORMATION: Based largely or completely on information for Myclobutanil:

Material is highly toxic to aquatic organisms on an acute basis (LC₅₀ or EC₅₀ is between 0.1 and 1 mg/L in the most sensitive species tested).

Acute LC₅₀ in bluegill (*Lepomis macrochirus*) is 2.4 - 4.1 mg/L.

Acute LC₅₀ in rainbow trout (*Oncorhynchus mykiss*) is 4.2 mg/L.

Acute LC₅₀ in water flea (*Daphnia magna*) is 11 mg/L.

Maximum acceptable toxicant concentration (MATC) in fish early life-stage study is between 0.98 - 2.2 mg/L.

Growth inhibition EC₅₀ in green alga (*Selenastrum capricornutum*) is 1.0 mg/L.

Growth inhibition EC₅₀ in alga (*Scenedesmus sp.*) is 2.655 mg/L.

Acute immobilization EC₅₀ in water flea (*Daphnia magna*) is 17 mg/L.

Acute LC₅₀ in sheepshead minnow (*Cyprinodon variegatus*) is 4.7 mg/L.

Acute LC₅₀ in saltwater mysid (*Mysidopsis bahia*) is 0.24 mg/L.

Acute EC₅₀ in shell deposition inhibition in Eastern oyster (*Crassostrea virginica*) is 0.72 mg/L.

Material is practically non-toxic to birds on a dietary basis (LC₅₀ is >5000 ppm).

Dietary LC₅₀ in bobwhite (*Colinus virginianus*) is >5000 ppm.

Dietary LC₅₀ in mallard (*Anas platyrhynchos*) is >5000 ppm.

Material is slightly toxic to birds on an acute basis (LD₅₀ is between 501 and 2000 mg/kg).

Acute oral LD₅₀ in bobwhite (*Colinus virginianus*) is 510 mg/kg.

Acute contact LD₅₀ in honeybee (*Apis mellifera*) is >100 µg/bee.

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Do not contaminate water, food or feed by storage and disposal.
Product: Wastes resulting from the use of this product may be disposed of on site according to label directions or at an approved waste disposal facility.
Container: Do not reuse empty containers. Completely empty bag into application equipment. Dispose of emptied bag(s) in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation: Not Regulated	Marine Pollutant #1: NA
Proper Shipping Name: NA	HM 181 Shipping Name: NA
Hazard Class: NA	ID NO.: NA
U.S. Surface Freight Class: No Data	Reportable Quantity (RQ): NA

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SEC 311/312:

Y Immediate (Acute Health)
Y Delayed (Chronic Health)
N Fire
N Sudden Release of Pressure
N Reactivity

SEC 302 (Extremely Hazardous Substance): NA
SEC 304 (Emergency Release Notification): NA
SEC 313 (Toxic Chemicals): Myclobutanil (CAS #88671-89-0, 0.39%)
CERCLA RQ: NA
CAA RQ: NA

EPA Registration No.: 62719-461-10404

NOTE: NA=Not Applicable; ND=Not Determined; NE=Not Established

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For further information, contact: LESCO, Inc. • 1301 East 9th Street, Suite 1300 • Cleveland, OH 44114-1849 or (800) 321-5325.